

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | |
|---|----|---|
| (51) International Patent Classification 5 : A61K 39/39, 39/00 // A61K 39/245 A61K 39/295 | A1 | (11) International Publication Number: WO 94/00153 (43) International Publication Date: 6 January 1994 (06.01.94) |
| (21) International Application Number: PCT/EP93/01524 | | (74) Agent: DALTON, Marcus, Jonathan, William; Smith-Kline Beecham, Corporate Patents, Great Burgh, Yew Tree Bottom Road, Epsom, Surrey KT18 5XQ (GB). |
| (22) International Filing Date: 15 June 1993 (15.06.93) | | |
| (30) Priority data: 9213559.9 25 June 1992 (25.06.92) GB 9226283.1 17 December 1992 (17.12.92) GB 9304056.6 1 March 1993 (01.03.93) GB | | (81) Designated States: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). |
| (71) Applicant (<i>for all designated States except US</i>): SMITH-KLINE BEECHAM BIOLOGICALS (S.A.) [BE/BE]; 89, rue de l'Institut, B-1330 Rixensart (BE). | | Published <i>With international search report.</i> |
| (72) Inventors; and (75) Inventors/Applicants (<i>for US only</i>) : PRIEELS, Jean-Paul [BE/BE]; GARCON-JOHNSON, Nathalie, Marie-Joséphine, Claude [FR/BE]; SLAOUI, Moncef [MC/BE]; PALA, Pietro [IT/BE]; SmithKline Beecham Biologicals (S.A.), 89, rue de l'Institut, B-1330 Rixensart (BE). | | |

(54) Title: VACCINE COMPOSITION CONTAINING ADJUVANTS

(57) Abstract

The present invention provides vaccine compositions comprising 3 De-O-acylated monophosphoryl lipid A and QS21. The vaccines compositions are potent inducers of CTL and γ IFN responses.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

| | | | | | |
|----|--------------------------|----|--|----|--------------------------|
| AT | Austria | FR | France | MR | Mauritania |
| AU | Australia | GA | Gabon | MW | Malawi |
| BB | Barbados | GB | United Kingdom | NE | Niger |
| BE | Belgium | GN | Guinea | NL | Netherlands |
| BF | Burkina Faso | GR | Greece | NO | Norway |
| BG | Bulgaria | HU | Hungary | NZ | New Zealand |
| BJ | Benin | IE | Ireland | PL | Poland |
| BR | Brazil | IT | Italy | PT | Portugal |
| BY | Belarus | JP | Japan | RO | Romania |
| CA | Canada | KP | Democratic People's Republic of Korea | RU | Russian Federation |
| CF | Central African Republic | KR | Republic of Korea | SD | Sudan |
| CG | Congo | KZ | Kazakhstan | SE | Sweden |
| CH | Switzerland | LI | Liechtenstein | SI | Slovenia |
| CI | Côte d'Ivoire | LK | Sri Lanka | SK | Slovak Republic |
| CM | Cameroon | LU | Luxembourg | SN | Senegal |
| CN | China | LV | Latvia | TD | Chad |
| CS | Czechoslovakia | MC | Monaco | TG | Togo |
| CZ | Czech Republic | MG | Madagascar | UA | Ukraine |
| DE | Germany | ML | Mali | US | United States of America |
| DK | Denmark | MN | Mongolia | UZ | Uzbekistan |
| ES | Spain | | | VN | Viet Nam |
| FI | Finland | | | | |